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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------------------------|-------------|----------------------|---------------------|------------------|
| 10/037,399 | 12/21/2001 | Thomas Pfohe | 30014200-1022 | 7396 |
| 26263 | 7590 | 10/07/2005 | EXAMINER | |
| SONNENSCHN NATH & ROSENTHAL LLP | | | GOLD, AVI M | |
| P.O. BOX 061080 | | | ART UNIT | |
| WACKER DRIVE STATION, SEARS TOWER | | | PAPER NUMBER | |
| CHICAGO, IL 60606-1080 | | | 2157 | |

DATE MAILED: 10/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | | |
|------------------------------|------------------------|--|---------------------|--|
| Office Action Summary | Application No. | | Applicant(s) | |
| | 10/037,399 | | PFOHE ET AL. | |
| | Examiner | | Art Unit | |
| | Avi Gold | | 2157 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 December 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-37 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-37 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>4/1/02</u> . | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

This action is responsive to the application filed December 21, 2001. Claims 1-37 are pending. Claims 1-37 represent methods and systems for replacing data transmission request expressions.

Claims Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-37 are rejected under 35 U.S.C. 102(e) as being anticipated by Housel, III, U.S. Patent No. 6,535,869.

Housel teaches the invention as claimed including a method, system, and computer-readable code for embedding a file index within a data file to which the index pertains (see abstract).

Regarding claims 1, 15, and 35, Housel teaches a method, computer readable medium and a data processing system; in a data processing system for replacing data transmission request expressions, the method comprising the steps of:

receiving a data transmission request expression of a first type from a requestor, the data transmission request expression corresponding to data identified by a data transmission request expression of a second type (col. 8, lines 56-64, Housel discloses receiving a URL);

replacing the data transmission request expression of the first type with a replacement data transmission request expression of the second type (col. 8, lines 65-67, Housel discloses replacing the URL with a hashed record key);

retrieving the data using the replacement data transmission request expression; and sending the retrieved data to the requester (col. 8, lines 56-67, Housel discloses the retrieved data being sent).

Regarding claims 2 and 16, Housel teaches the method and computer readable medium of claims 1 and 15, further comprising the steps of:

determining whether the retrieved data comprises a data transmission request expression of the second type; and

when the retrieved data comprises a data transmission request expression of the second type, replacing the data transmission request expression in the retrieved data with a replacement data transmission request expression of the first type (col. 8, lines 56-67).

Regarding claims 3 and 17, Housel teaches the method and computer readable medium of claims 1 and 15,, further comprising the steps of:

determining whether the retrieved data comprises an embedded data transmission request expression (col. 8, lines 56-64);

when the retrieved data comprises the embedded data transmission request expression, determining whether the data transmission request expression is supported by the requestor (col. 9, lines 1-10, Housel discloses choosing an appropriate hashing technique); and

when data transmission request expression in the retrieved data is not supported by the requestor, replacing the data transmission request expression in the retrieved data with a replacement data transmission request expression supported by the requestor (col. 9, lines 1-10).

Regarding claims 4 and 18, Housel teaches the method and computer readable medium of claims 1 and 15, further comprising the step of:

identifying the replacement data transmission request expression as an entry in a lookup table corresponding to the data transmission request expression of the first type (col. 18, lines 43-54, Housel discloses a hash table).

Regarding claims 5 and 19, Housel teaches the method and computer readable medium of claims 1 and 15, further comprising the steps of:

computing a hash value based on the data transmission request expression of the first type, and using the hash value to identify the replacement data transmission

request expression as an entry in a lookup table corresponding to the data transmission request expression of the first type (col. 8, line 47 – col. 9, line 10).

Regarding claims 6 and 20, Housel teaches the method and computer readable medium of claims 1 and 15, further comprising the steps of:

- determining whether the retrieved data comprises an embedded data transmission request expression;

- when the retrieved data comprises the embedded data transmission request expression, determining whether a replacement data transmission request expression exists as an entry in a lookup table corresponding to the data transmission request expression in the retrieved data;

- when no replacement data transmission request expression exists in the lookup table, generating a replacement data transmission request expression;

- storing the generated replacement data transmission request expression in the lookup table in association with the data transmission request expression in the retrieved data (col. 8, line 47 – col. 9, line 10).

Regarding claims 7 and 21, Housel teaches the method and computer readable medium of claims 1 and 15, wherein the data transmission request expression is a first uniform resource locator (URL) having a first length and the replacement data transmission request expression is a second uniform resource locator (URL) having a second length (col. 8, lines 56-67).

Regarding claims 8 and 22, Housel teaches the method and computer readable medium of claims 1 and 15, wherein the data is a web page (col. 8, lines 56-67).

Regarding claims 9, 23, and 36, Housel teaches a method, computer-readable medium, and data processing system; in a data processing system for replacing data transmission request expressions, the method comprising the steps of:

retrieving data with a data transmission request expression of a first type for sending to a requestor;

replacing the data transmission request expression in the retrieved data with a replacement data transmission request expression of a second type; and

sending the retrieved data with the replacement data transmission request expression to the requestor (col. 8, lines 56-67).

Regarding claims 10 and 24, Housel teaches the method and computer readable medium of claims 9 and 23, further comprising the steps of:

computing a hash value based on the data transmission request expression of the first type, and using the hash value to identify the replacement data transmission request expression as an entry in a lookup table corresponding to the data transmission request expression of the first type (col. 8, line 47 – col. 9, line 10).

Regarding claims 11 and 25, Housel teaches the method and computer readable medium of claims 9 and 23, further comprising the steps of:

determining whether a replacement data transmission request expression exists as an entry in a lookup table corresponding to the data transmission request expression in the retrieved data;

when no replacement data transmission request expression exists in the lookup table, generating a replacement data transmission request expression;

storing the generated replacement data transmission request expression in the lookup table in association with the data transmission request expression in the retrieved data (col. 8, line 47 – col. 9, line 10).

Regarding claims 12 and 26, Housel teaches the method and computer readable medium of claims 9 and 23, wherein the data transmission request expression is a first uniform resource locator (URL) having a first length and the replacement data transmission request expression is a second uniform resource locator (URL) having a second length (col. 8, lines 56-67).

Regarding claims 13 and 27, Housel teaches the method and computer readable medium of claims 9 and 23, wherein the data is a web page (col. 8, lines 56-64).

Regarding claims 14 and 28, Housel teaches a method and computer readable medium; in a data processing system having a web server with a web page, the method comprising the steps performed by the web server of:

receiving a first URL of a first type from a client, the first URL corresponding to the web page identified by a URL of a second type;

replacing the first URL with a replacement URL of the second type;

retrieving the web page using the replacement URL; and

sending the retrieved web page to the client (col. 8, line 47 – col. 9, line 10).

Regarding claims 29, Housel teaches a data processing system comprising:

a secondary storage device having a stored data identified by a data transmission request expression of a first type; a memory comprising a computer program that receives a data transmission request expression of a second type from a requestor, the data transmission request expression corresponding to data, replaces the data transmission request expression of the second type with a replacement data transmission request expression of the first type, retrieves the data using the replacement data transmission request expression, and sends the retrieved data to the requestor; and a processing unit that runs the computer program (col. 8, line 47 – col. 9, line 10).

Regarding claims 30, Housel teaches the data processing system of claim 29, wherein the data transmission request expression is a first uniform resource locator (URL) having a first length and the replacement data transmission request expression is a second uniform resource locator (URL) having a second length (col. 8, lines 56-67).

Regarding claims 31, Housel teaches the data processing system of claim 29, wherein the data is a web page (col. 8, lines 56-64).

Regarding claims 32, Housel teaches a data processing system comprising:
a secondary storage device having a stored data having a data transmission request expression of a first type; a memory comprising a computer program that retrieves the data for sending to a requestor, replaces the data transmission request expression in the retrieved data with a replacement data transmission request expression of a second type, and sends the retrieved data with the replacement data transmission request expression to the requestor; and a processing unit that runs the computer program (col. 8, line 47 – col. 9, line 10).

Regarding claims 33, Housel teaches the data processing system of claim 32, wherein the data transmission request expression is a first uniform resource locator (URL) having a first length and the replacement data transmission request expression is a second uniform resource locator (URL) having a second length (col. 8, lines 56-67).

Regarding claims 34, Housel teaches the data processing system of claim 32, wherein the data is a web page (col. 8, lines 56-64).

Regarding claims 37, Housel teaches a computer-readable memory device encoded with a data structure and a program that accesses the data structure, the

program is by a processor in a system, the data structure having a plurality of entries, each entry comprising:

a data transmission request expression of a first type for retrieving a document identified by a data transmission request expression of a second type, wherein the program replaces the data transmission request expression of the first type with a data transmission request expression of a second type before retrieving the document (col. 8, line 47 – col. 9, 10).

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Pat. No. 5,999,929 to Goodman

U.S. Pat. No. 5,751,961 to Smyk

U.S. Pat. No. 6,571,295 to Sidana

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Avi Gold whose telephone number is 571-272-4002. The examiner can normally be reached on M-F 8:00-5:30 (1st Friday Off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on 571-272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.


Art Unit: 2157

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Avi Gold

Patent Examiner

Art Unit 2157


A. Salas
Primary Examiner

AMG